

FIG. 1

50

TEST RESULT TRANSLATOR

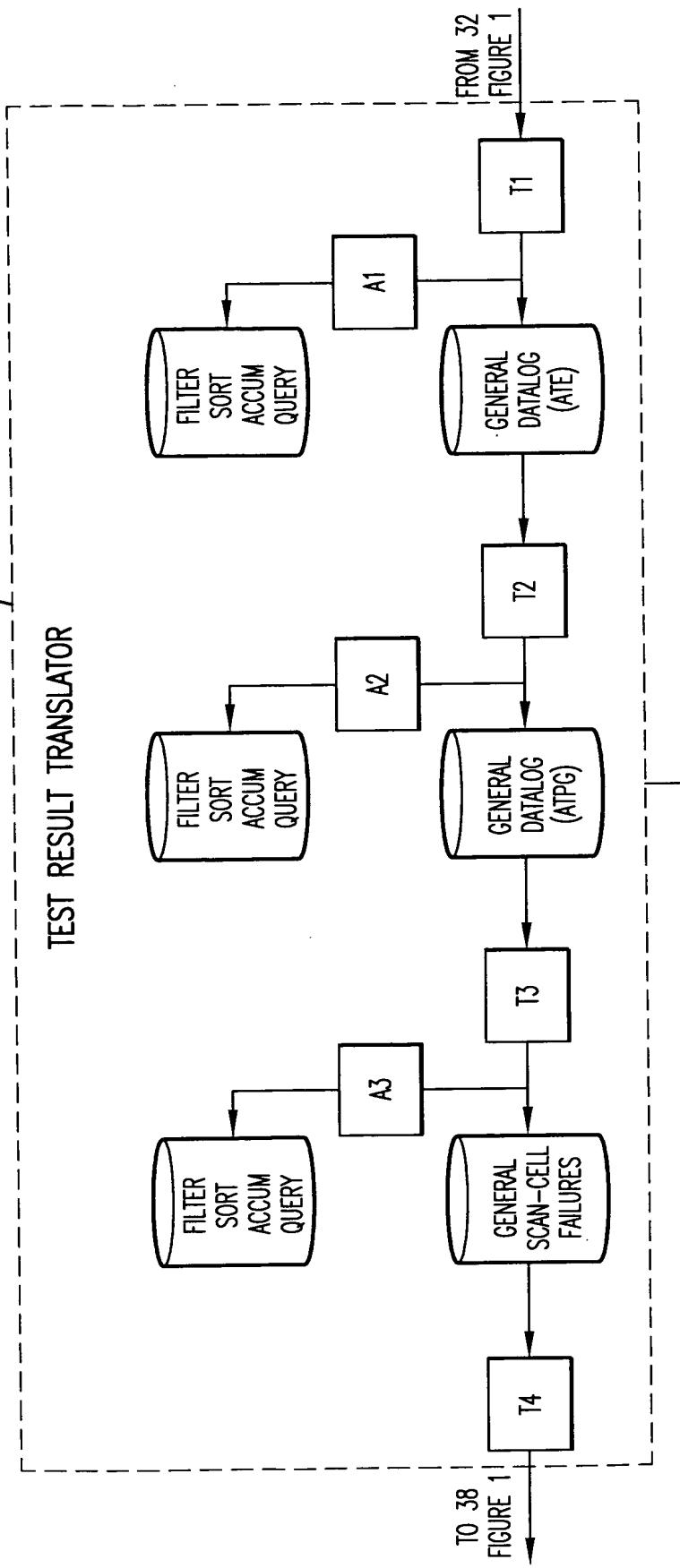


FIG.2

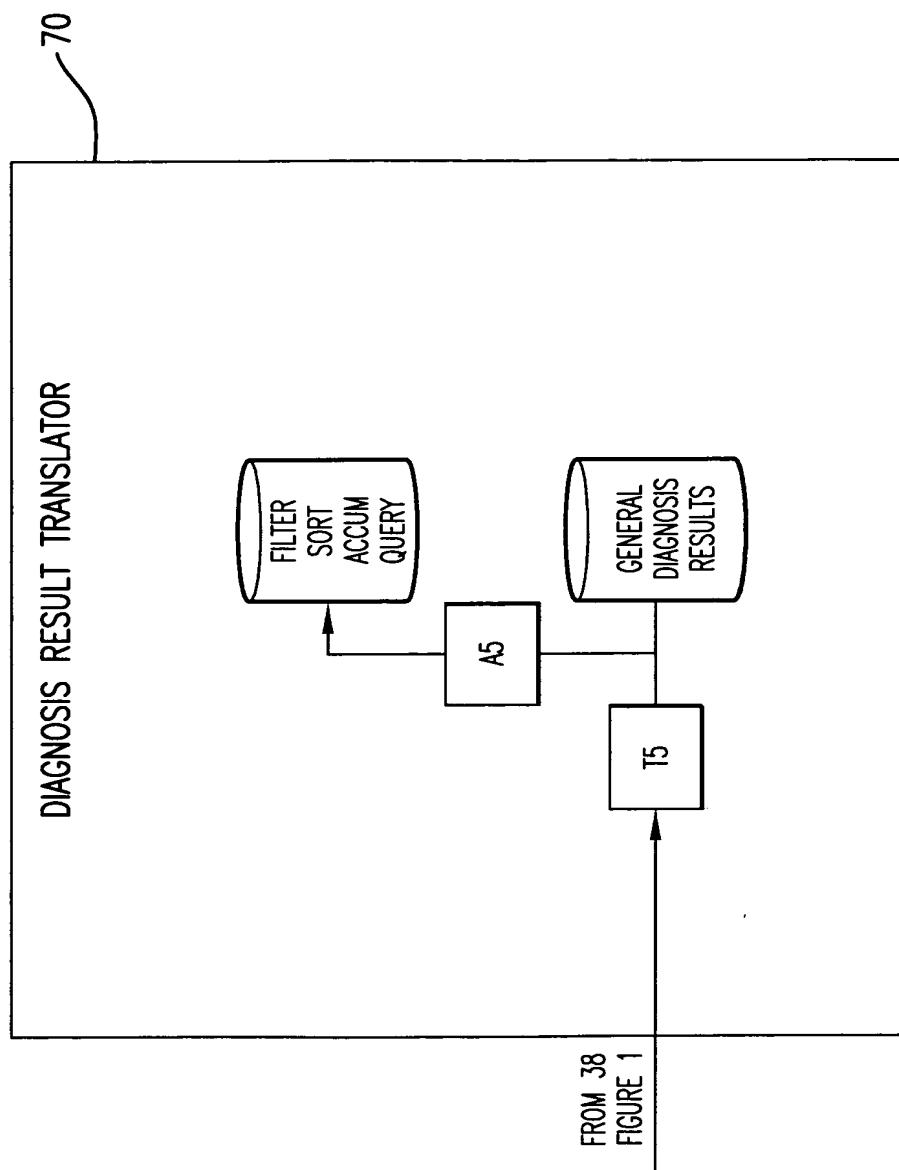


FIG.3

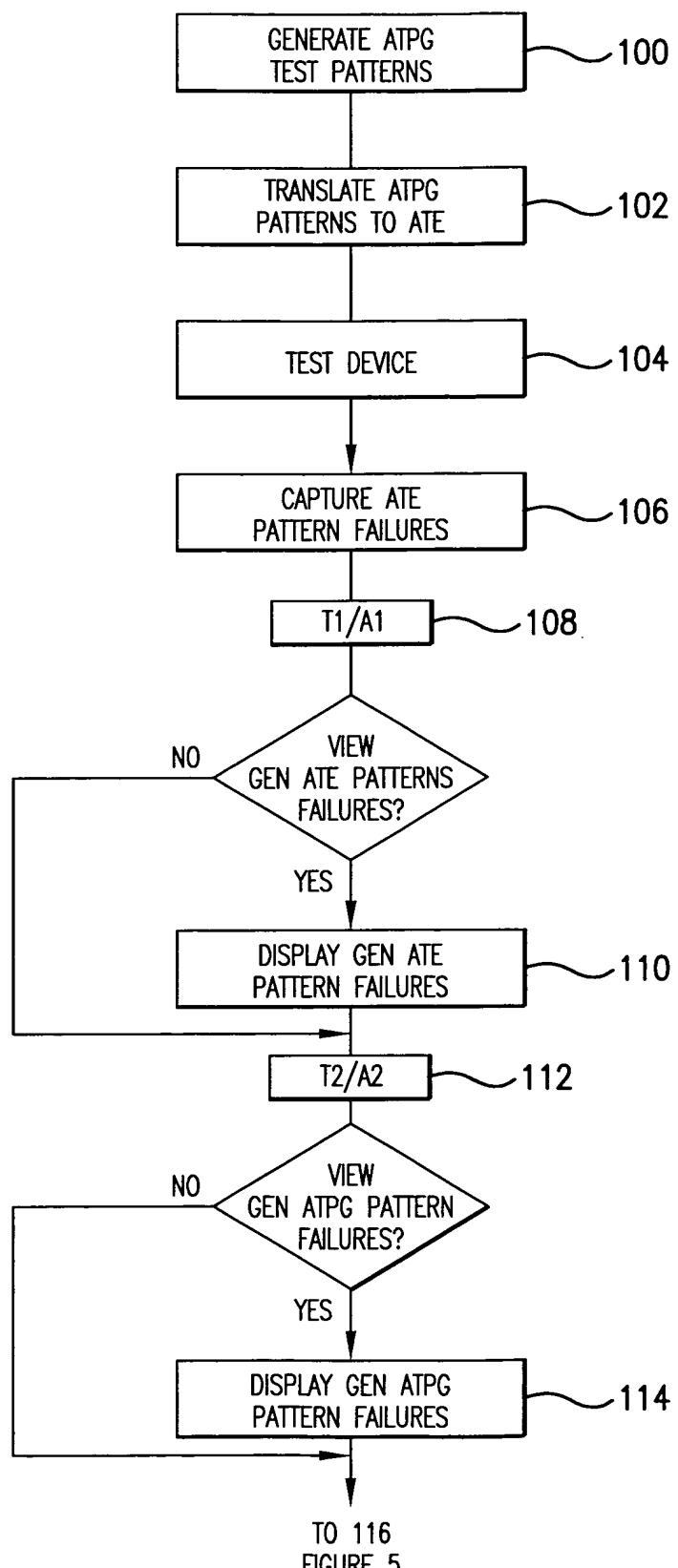


FIG.4

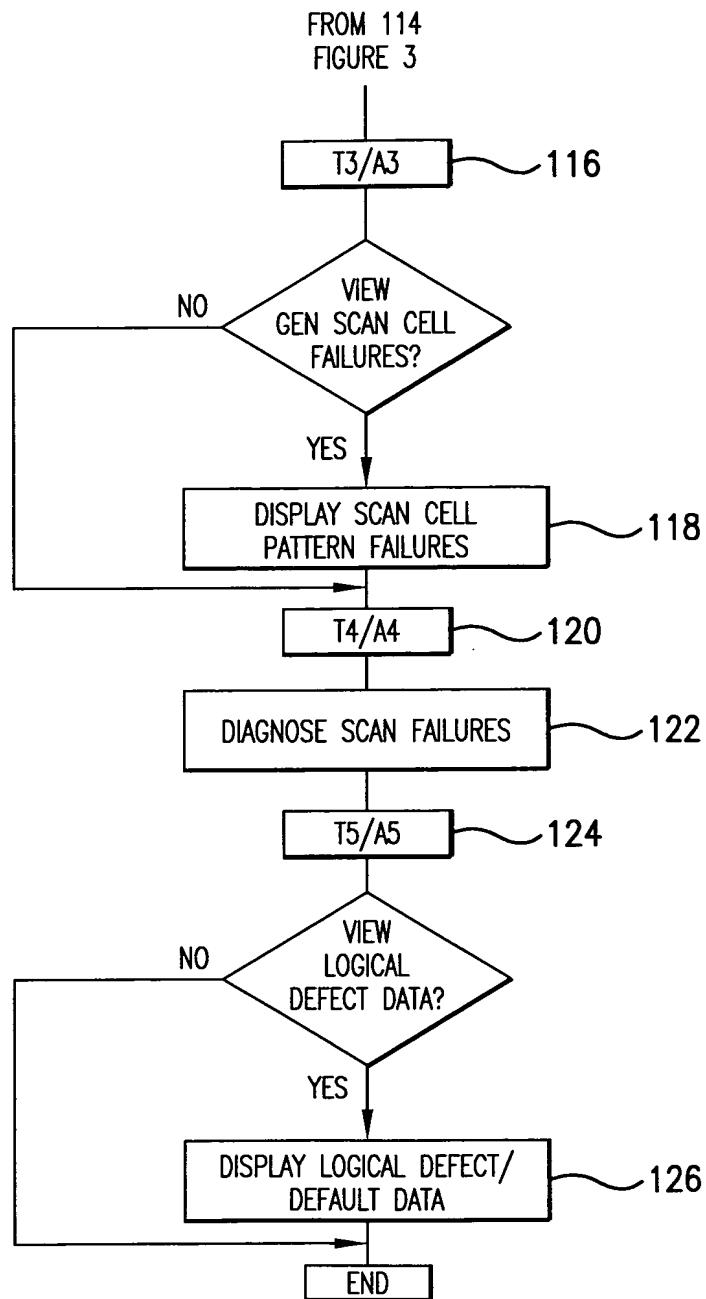


FIG.5

Interactive Scan Diagnosis Prototype

File View Look and Feel Help

Connect to Tester Connect to Diagnosis Tool Disconnect Status Status: Connected to IMAGE tester: tiger-S2

Debug Scan Test 2 at Site 0

Cumulative Results for Test Scan Test 2 at Site 0

Device: device 5

Scan Fail Table   
Last Result   
Accumulated Result

Select Accumulation Mode  Auto  Manual

Count	Chain	Cell	Pattern	Devices
3	chain6 188	265	Data: Scan Test 2-1	<input checked="" type="checkbox"/> Diagnose this failure <input type="checkbox"/>
3	chain6 193	495	Data: Scan Test 2-2	<input type="checkbox"/> Data: Scan Test 2-3
3	chain6 187	797	Data: Scan Test 2-1, Data: Scan Test 2-3	<input type="checkbox"/> Data: Scan Test 2-3
3	chain6 192	338	Data: Scan Test 2-1, Data: Scan Test 2-3	<input type="checkbox"/> Data: Scan Test 2-3
3	chain6 190	561	Data: Scan Test 2-1, Data: Scan Test 2-3	<input type="checkbox"/> Data: Scan Test 2-3

device 1: Data Scan Test 2-1  
device 2: Data Scan Test 2-2  
device 3: Data Scan Test 2-3

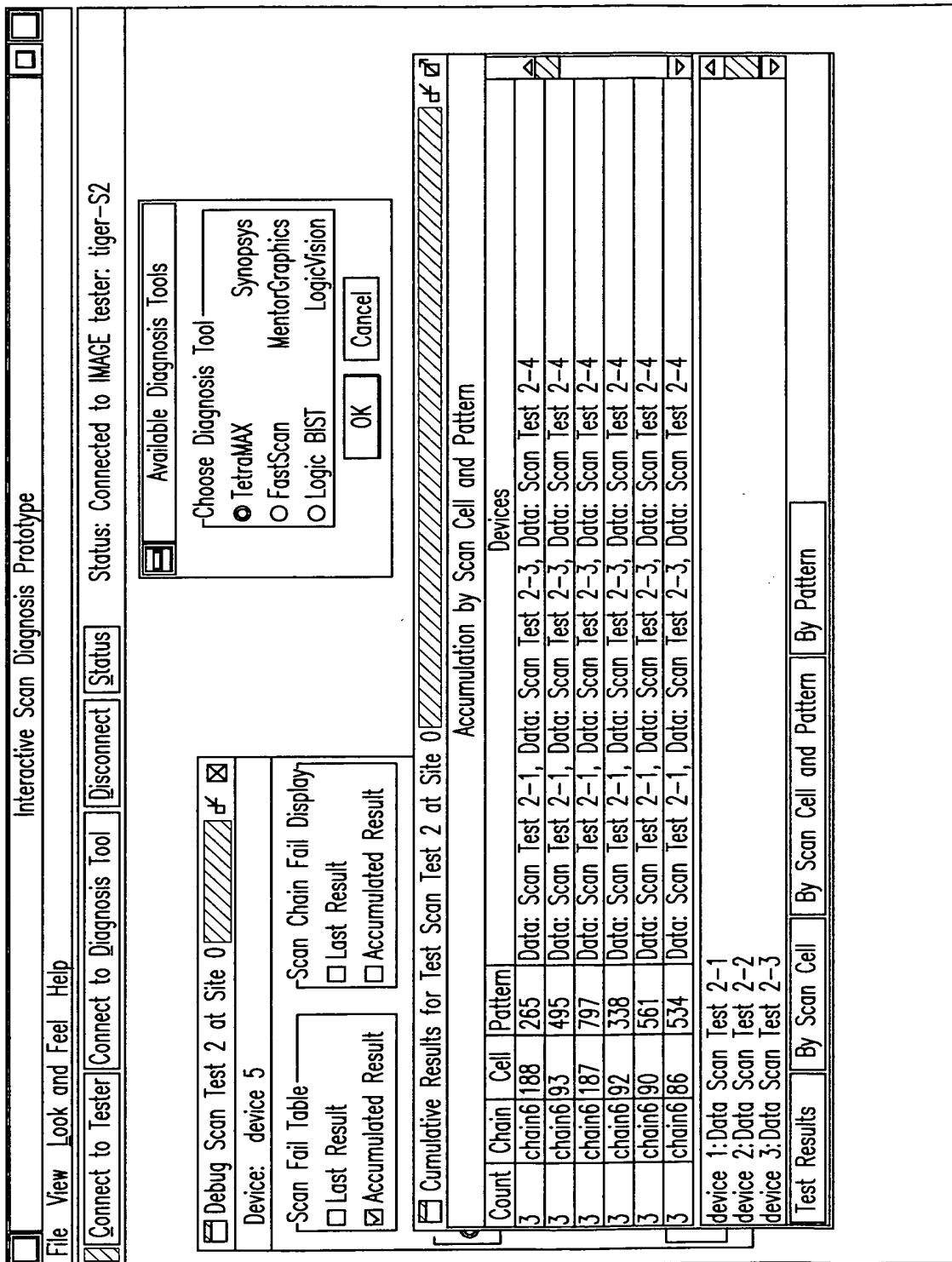
Test Results  By Scan Cell  By Scan Cell and Pattern  By Pattern

Cumulative Scan Chain Display for Test Scan Test 2 at Site 0

Zoom View Type

scen 101	scen out1 <input type="checkbox"/>
scen 102	scen out2 <input type="checkbox"/>
scen 103	scen out3 <input type="checkbox"/>
scen 104	scen out4 <input type="checkbox"/>
scen 105	scen out5 <input type="checkbox"/>
scen 106	scen out6 <input type="checkbox"/>
scen 107	scen out7 <input type="checkbox"/>
scen 108	scen out8 <input type="checkbox"/>
scen 101	scen out1 <input type="checkbox"/>
scen 102	scen out2 <input type="checkbox"/>
scen 103	scen out3 <input type="checkbox"/>

FIG.6



**FIG. 7**

Interactive Scan Diagnosis Prototype

File View Look and Feel Help

Connect to Tester Connect to Diagnosis Tool Disconnect Status Status: Connected to IMAGE tester: tiger-S2

Diagnosis Tool

Device Narr Test Result Diagnosis Result

<input checked="" type="checkbox"/> device 1	Data: Scan Test 2-1	Diagnosis_Result_1
<input checked="" type="checkbox"/> device 3	Data: Scan Test 2-3	Diagnosis_Result_2
<input checked="" type="checkbox"/> device 4	Data: Scan Test 2-4	Diagnosis_Result_3

Show Result  Accumulated Diagnosis Result  Raw Diagnosis Result

Diagnose  Close  Show GUI

Accumulated Fault Equivalents

Count	Fault Equivalent	Node	Fault Type	Detection Code	Devices
3	fe2	/fpu 1/u5/prod 1 mult 378 ix4405/Y	0	DS	diagnosis result 1, diagnosis result 2,...
		/fpu 1/u5/prod 1 mult 378 ix4405/A	1	DS	diagnosis_result_1, diagnosis_result_2,...
		/fpu 1/u5/ix2828/Y	1	DS	
		/fpu 1/u5/ix2828/A2	0	DS	
		/fpu 1/u5/ix2828/A1	0	DS	
		/fpu 1/u5/ix2828/A0	0	DS	
1	fe3	/risc 1/ix4163/Y	1	DS	diagnosis_result_2
		/risc 1/ix4163/B0	1	DS	
		/risc 1/ix5939/Y	1	DS	

Accumulate by Defect  Accumulate by Fault Equivalent  Accumulate by Node

FIG.8